PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNALS AT THE INTERSECTIONS OF MD 201 (KENILWORTH AVENUE) AND LAWRENCE STREET AND MD 201 (KENILWORTH AVENUE) AND LLOYD STREET IN PRINCE GEORGE'S COUNTY, MARYLAND. MD 201 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

MD 201 & LAWRENCE STREET

THE INTERSECTION OPERATES IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 201 APPROACHES OPERATING CONCURRENTLY AND THE LAWRENCE STREET APPROACHES OPERATING CONCURRENTLY.

AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE NORTH LEG OF MD 201 AND PEDESTRIAN INDICATIONS WILL BE PROVIDED ACROSS THE EAST LEG OF LAWRENCE STREET.

MD 201 & LLOYD STREET

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 201 (KENILWORTH AVENUE) AND LAWRENCE STREET - NORTH LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS KENILWORTH AT LAWRENCE, WAIT." *

WALK: RAPID TICK

LAWRENCE STREET AND MD 201 (KENILWORTH AVENUE) - EAST LEG

INTERSECTION WITH ANGLED CROSSING

WAIT: "WAIT TO CROSS LAWRENCE AT KENILWORTH. CROSSWALK ANGLES LEFT, WAIT." ** WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10' ** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

MD 201 & L. WRENCE STREET

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE APS EQUIPMENT.

MD 201 & LLOYD STREET

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED.

MAINTENANCE OF TRAFFIC

MD 201 & LLOYD STREET

D,E,F,G,H,J,K,M,N-

A,B,C,D,E,F,G, $H,J,K,L,M,N \rightarrow$

—D,E,F,G, A—→ H,J,K,N

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

SPLICE NEW LOOP WIRE(S) TO EXISTING 2-CONDUCTOR ELECTRICAL

CABLE(S) (ALUMINUM SHIELDED) NO. 14 A.W.G. USING SPLICE KIT

D, E, F, G, H, J, K, N-

D,E,N-→

— F • G • H —

SPLICE NEW LOOP WIRE(S) TO EXISTING 2-CONDUCTOR ELECTRICAL CABLE(S) (ALUMINUM SHIELDED)

NO. 14 A.W.G. USING SPLICE KIT-

STANDARD NO. MD-104.04-01 (SHOULDER WORK)

STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)

STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE) STANDARD NO. MD-104.04-07 (CENTER LANE CLOSURE) STANDARD NO. MD-104.02-09 (FLAGGING OPERATION) STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION)

WIRING DIAGRAM

WIRING KEY 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) · USE EXISTING SIGNAL CABLE + - $\frac{3}{4}$ IN. X 10 FT, GROUND ROD

SPLICE NEW LOOP WIRE(S) TO EXISTING 2-CONDUCTOR ELECTRICAL CABLE(S) (ALUMINUM SHIELDED) NO. 14 A.W.G. USING SPLICE KIT-

> WIRING KEY EXISTING 2-CONDUCTOR
> ELECTRICAL CABLE ALUMINUM
> SHIELDED (NO. 14 A.W.G.)

USE EXISTING SIGNAL CABLE

LW - LOOP WIRE (NO. 14 A.W.G.)

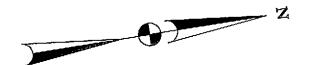
PHASE CHART

MD 201 & LAWRENCE STREET

8 9 10 11 12 R Y G RYG

PHASE 2 + 6	G	G	G	G	R	R	R	R	WK	WK	DW	DW	
PED. CLEARANCE	G	G	G	G	R	R	R	R	FL/DW	FL⁄DW	DW	DW	
2 + 6 CHANGE	Υ	Υ	Υ	Υ	R	R	R	R	DW	DW	DW	DW	•
PHASE 4 + 8	R	R	R	R	G	G	G	G	DW	DW	DW.	ĎW	
4 + 8 CHANGE	R	R	R	R	Υ	Υ	Y	Y	. DM	DW	DW	DW	
PHASE 4 + 8 ALT	R	R	R	R	G	G	G	G	DW	DW	wĸ	WK	」
PED. CLEARANCE	R	R	R	R	G	G	G	G	DW	DW	FL/DW	FL/DW] ;
4 + 8 ALT CHANGE	R	R	R	R	Y	Y	Y	Υ	DW .	DW	DW	DW	-
FLASHING	FLY	FLY	FL/Y	FLY	FL/R	FL/R	FL⁄R	FL/R	DARK	DARK	DARK	DARK	****

MD 201 & LLOYD STREET



1	2	3	4	5	6	7	8
\bigcirc R	\mathbb{R}	\bigcirc R	\mathbb{R}	\mathbb{R}	\mathbb{R}	R	\bigcirc R
(Y)	(Y)	R > G	(Y)	(y)	(Y)	(Y)	(Y)
(4)	9	(g)	9	(4)	(4)	G	G)

PHASE 2 AND 6	G	G	G	G	R	R	R	R	—
2 AND 6 CHANGE	Υ	Υ	Υ	Υ	R	R	R	R	_ _
PHASE 4 + 8	R	R	R	R	G	G	G	G	♠ ⊦
4 + 8 CHANGE	R	R	R	R	Υ	Υ	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	++

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

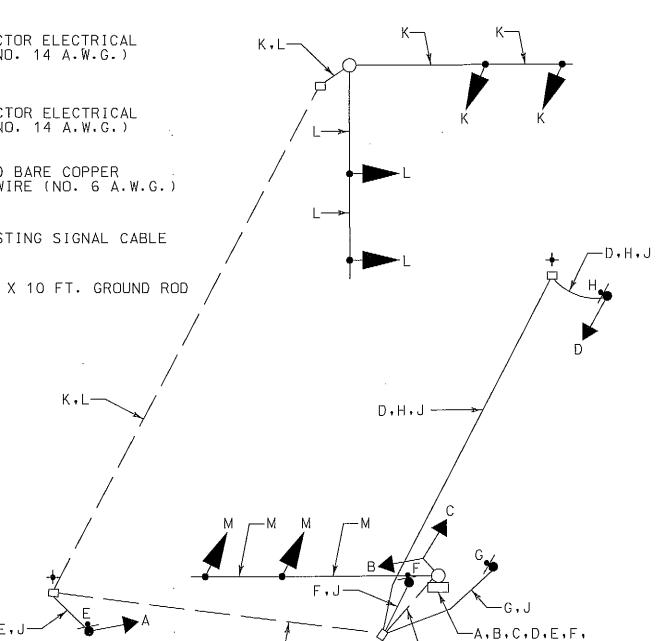
MS. FELECIA MURPHY

PHONE: (301) 513-7318 ASSISTANT DISTRICT ENGINEER - TRAFFIC PRINCE GEORGES COUNTY

MR. VERNON STINNETT ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (301) 513-7305 DISTRICT UTILITY ENGINEER PHONE: (301) 513-7350

MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

MD 201 & LAWRENCE STREET



A,E,J,K,L

G,H,K,L,M

-A,B,E,F,G,H,K,L

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

4 S.F.

CODES QUANTITY

973023

DESCRIPTION

SHEET ALUMINUM SIGNS TO CONSIST OF (POLE MOUNT) :

 $R_{10-3}(1)$ SIGN (9 IN. \times 15 IN.) TO READ - 2 EACH "PUSHBUTTON TO CROSS KENILWORTH AVENUE"

R10-3(1) SIGN (9 IN. \times 15 IN.) TO READ "PUSHBUTTON TO CROSS LAWRENCE STREET"

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODES	QUANTITY	DESCRIPTION
120500	1 EACH	MAINTENANCE OF TRAFFIC
203030	2 C.Y.	TEST PIT EXCAVATION
585621	135 L.F.	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625 ·	125 L.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585700	10 L.F.	REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH
801004	2 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
802501	295 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	85 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805140	25 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805155	110 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
805160	40 L.F.	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
813015	4 S.F.	INSTALL OVERHEAD SIGN
818004	4 EACH	10 FOOT BREAKAWAY PEDESTAL POLE
837001	3 EACH	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	42 EACH	12 IN. LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860290	2 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	465 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	365 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (ND. 14 AWG)
862101	1710 L.F.	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
862102	490 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)
800000	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
800000	4 EACH	16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	4 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION
800000	1 EACH	2 WIRE CENTRAL CONTROL UNIT
₹		

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR



TS NO.

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION MD 201 (Kenilworth Avenue) Signals

Bladensburg, Maryland

GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE 4/11/2011 CONTRACT NO. PG9375177 DESIGNED BY_ COUNTY Prince George's LOGMILE DRAWN BY_ CHECKED BY _ TOD NO.

DRAWING TSP-3 OF 3

SHEET NO. 3 OF 3

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WHITMAN, REQUARDT

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